Mean, Median, Mode & Range

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Vocabulary Review Sum – the answer to an addition problem. Addend – the numbers you added together to get the sum.

6 + 9 = 15

Definition

Mean

Means

Average

Definition

Mean – the average of a group of numbers.

2, 5, 2, 1, 5

Mean = 3

Mean is found by evening out the numbers 2, 5, 2, 1, 5

Mean is found by evening out the numbers 2, 5, 2, 1, 5

Mean is found by evening out the numbers 2, 5, 2, 1, 5mean = 3

How to Find the Mean of a Group of Numbers • Step 1 – Add all the numbers. 8, 10, 12, 18, 22, 26 8+10+12+18+22+26 = 96

How to Find the Mean of a **Group of Numbers** Step 2 – Divide the sum by the number of addends. 8, 10, 12, 18, 22, 26 8+10+12+18+22+26 = 96 How many addends are there?

How to Find the Mean of a **Group of Numbers** Step 2 – Divide the sum by the number of addends. 16# of addends $\longrightarrow 6$ 96 **— sum** 36

How to Find the Mean of a Group of Numbers The mean or average of these numbers is 16.

8, 10, 12, 18, 22, 26

7, 10, 16

2, 9, 14, 27

1, 2, 7, 11, 19

26, 33, 41, 52

Definition

Median

is in the

Mi<u>dd</u>le

Definition

Median – the middle number in a set of ordered numbers.

1, 3, 7, 10, 13

Median = 7

How to Find the Median in a **Group of Numbers** Step 1 – Arrange the numbers in order from least to greatest. 21, 18, 24, 19, 27 18, 19, 21, 24, 27

How to Find the Median in a Group of Numbers Step 2 – Find the middle number. 21, 18, 24, 19, 27 18, 19, (21), 24, 27

How to Find the Median in a Group of Numbers
Step 2 – Find the middle number.

18, 19, 21, 24, 27

This is your median number.

How to Find the Median in a Group of Numbers

 Step 3 – If there are two middle numbers, find the mean of these two numbers.

18, 19, 21, 25, 27, 28

How to Find the Median in a **Group of Numbers** Step 3 – If there are two middle numbers, find the mean of these two numbers. 21+(25)=4623 ← – median 2)46



29, 8, 4, 11, 19 4, 8, (11), 19, 29 11

31, 7, 2, 12, 14, 19 2, 7, 12, 14, 19, 31 $12 + 14 = 26 \quad 2) 26$

53, 5, 81, 67, 25, 78 5, 25, 53, 67, 78, 81 $\underline{60}$ $53 + 67 = 120 \ 2) 120$

Definition

Mode

is the most Popular

Definition A la mode – the most popular or that which is in fashion.



Baseball caps are a la mode today.

Definition Mode – the number that appears most frequently in a set of numbers. (1)(1), 3, 7, 10, 13Mode = 1

How to Find the Mode in a **Group of Numbers** Step 1 – Arrange the numbers in order from least to greatest. 21, 18, 24, 19, 18 18, 18, 19, 21, 24

How to Find the Mode in a Group of Numbers • Step 2 – Find the number that is repeated the most. 21, 18, 24, 19, 18 (18)(18), 19, 21, 24

Which number is the mode?

29, 8, 4, 8, 19 4, 8, 8, 19, 29 **8**

Which number is the mode?

1, 2, 2, 9, 9, 4, 9, 101, 2, 2, 4, 9, 9, 9, 9, 9, 10

Which number is the mode?

22, 21, 27, 31, 21, 32 (2), (2), 22, 27, 31, 32

Definition

Range

is the distance

Between

Definition

 Range – the difference between the greatest and the least value in a set of numbers.

(1), 1, 3, 7, 10, (13) Range = 12

How to Find the Range in a **Group of Numbers** Step 1 – Arrange the numbers in order from least to greatest. 21, 18, 24, 19, 27 18, 19, 21, 24, 27

How to Find the Range in a **Group of Numbers** Step 2 – Find the lowest and highest numbers. 21, 18, 24, 19, 27 (18) 19, 21, 24, (27)

How to Find the Range in a **Group of Numbers** Step 3 – Find the difference between these 2 numbers. (18) 19, 21, 24, (27)27 - 18 = 9The range is 9

29, 8, 4, 8, 19 (4) 8, 8, 19, 29

29 - 4 = 25

22, 21, 27, 31, 21, 32(2), 21, 22, 27, 31, 32

32 - 21 = 11

31, 8, 3, 11, 19 (3,)8, 11, 19,(31)

31 - 3 = 28

23, 7, 9, 41, 19 (7,)9, 23, 19,(41)

41 - 7 = 34

THANK YOU

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